

Claims

What is claimed is:

- 1 1. A method for allocating resources in a circuit switched data network, comprising:
2 receiving a request for a resource from a device coupled to the circuit switched
3 data network;
4 granting the resource to the requesting device if the resource is available,
5 otherwise:
6 examining a first factor corresponding to an instantaneous quantity of data to be
7 transmitted by the requesting device;
8 examining a second factor corresponding to a rate of change in the instantaneous
9 quantity of data to be transmitted by the requesting device;
10 examining a third factor corresponding to a time of utilization of the resource by
11 the requesting device;
12 granting the resource to the requesting device based on the examination of the
13 first, second and third factors.
- 1 2. The method of claim 1, wherein the resource comprises a communications channel in
2 the circuit switched network.
- 1 3. The method of claim 2, wherein the communications channel in the circuit switched
2 network comprises a radio frequency communications channel in the circuit switched
3 network.

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1 11. The method of claim 1, wherein receiving a request for a resource from a device
2 coupled to the circuit switched data network when a threshold for requesting the resource
3 has been achieved, comprises adjusting the threshold for requesting the resource based on
4 a number of resources already allocated to the device, and receiving the request for the
5 resource from the device coupled to the circuit switched data network when the threshold
6 for requesting the resource has been achieved.

1 12. The method of claim 1, wherein granting the resource to the requesting device based
2 on the examination of the first, second and third factors further comprises first
3 deallocating the resource from a second device.

1 13. An article of manufacture, comprising:
2 a machine accessible medium, the machine accessible medium providing instructions,
3 that when executed by a machine, cause the machine to allocate resources in a circuit
4 switched data network, comprising:
5 receiving a request for a resource from a device coupled to the circuit switched
6 data network;
7 granting the resource to the requesting device if the resource is available,
8 otherwise:
9 examining a first factor corresponding to an instantaneous quantity of data to be
10 transmitted by the requesting device;
11 examining second factor corresponding to a rate of change in the instantaneous
12 quantity of data to be transmitted by the requesting device;

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3 receiving a request at a communications device coupled to the circuit switched
4 data network to allocate the communications channel to transmit data to a remote
5 communications device capable of being coupled to the circuit switched data network;
6 granting the request if the communications channel is available, otherwise:
7 examining a first factor corresponding to an instantaneous quantity of data to be
8 transmitted to the remote communications device;
9 examining a second factor corresponding to a rate of change in the instantaneous
10 quantity of data to be transmitted to the remote communications device;
11 examining a third factor corresponding to a time of utilization of the
12 communications channel by the remote communications device;
13 allocating the communications channel between the communications device and
14 the remote communications device based on the examination of the first, second and third
15 factors.

1 25. The method of claim 24, wherein the communications channel in the circuit switched
2 network comprises a radio frequency communications channel in the circuit switched
3 network.

1 26. The method of claim 24, wherein receiving a request at a communications device
2 coupled to the circuit switched data network to allocate the communications channel to
3 transmit data to a remote communications device capable of being coupled to the circuit
4 switched data network, comprises receiving a request at a communications device
5 coupled to the circuit switched data network to allocate the communications channel to

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9 examining a first factor corresponding to an instantaneous quantity of data to be
10 transmitted to the remote communications device;
11 examining a second factor corresponding to a rate of change in the instantaneous
12 quantity of data to be transmitted to the remote communications device;
13 examining a third factor corresponding to a time of utilization of the
14 communications channel by the remote communications device;
15 allocating the communications channel between the communications device and
16 the remote communications device based on the examination of the first, second and third
17 factors.

1 31. The article of manufacture of claim 30, wherein receiving a request at a
2 communications device coupled to the circuit switched data network to allocate the
3 communications channel to transmit data to a remote communications device capable of
4 being coupled to the circuit switched data network, comprises receiving a request at a
5 communications device coupled to the circuit switched data network to allocate the
6 communications channel to transmit data to a remote communications device capable of
7 being coupled to the circuit switched data network when a threshold for requesting
8 allocation of the communications channel has been achieved.